

INTERNATIONAL SEARCH REPORT

IB2005/050618

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04L29/08 H04L12/28

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H04L H04B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, INSPEC, COMPENDEX

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02/23853 A (ATHEROS COMMUNICATIONS, INC) 21 March 2002 (2002-03-21)	1, 10
Y	abstract page 1, line 4 - page 3, line 11 page 3, line 30 - page 6, line 32 figures 3-5	2-9, 11-16
Y	US 2001/055281 A1 (KWAN DENNIS) 27 December 2001 (2001-12-27) abstract paragraphs 7, 9, 23, 24, 27-30, 32, 33, 41 figure 4 ----- -/--	2-9, 11-16

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
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- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
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- *&* document member of the same patent family

Date of the actual completion of the international search

30 May 2005

Date of mailing of the international search report

14/06/2005

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INTERNATIONAL SEARCH REPORT

IB2005/050618

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 02/18024 A (KARAWAY GAMING, INC) 7 March 2002 (2002-03-07) abstract page 4, line 21 - line 31 page 7, line 7 - line 23 page 8, line 3 - page 10, line 28 page 11, line 19 - line 26 figures 3,5 -----	1-16
A	WO 03/067453 A (BERMAI, INC) 14 August 2003 (2003-08-14) abstract paragraphs 4-7; paragraphs 14-16, 22; paragraph 43 figures 3-8,11 -----	1-16
A	WO 01/22690 A (XIRCOM, INC) 29 March 2001 (2001-03-29) abstract page 16, line 3 - page 17, line 4 figure 6 -----	1-16
A	EP 1 133 129 A (TEXAS INSTRUMENTS INCORPORATED) 12 September 2001 (2001-09-12) abstract paragraphs 3-8; 11-32, 45, 47 figures 2,3 -----	1-16

INTERNATIONAL SEARCH REPORT

IB2005/050618

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
WO 0223853	A	21-03-2002	AU	8908401 A	26-03-2002
			TW	224914 B	01-12-2004
			WO	0223853 A2	21-03-2002
US 2001055281	A1	27-12-2001	AU	5965701 A	20-11-2001
			EP	1299804 A2	09-04-2003
			WO	0186434 A2	15-11-2001
WO 0218024	A	07-03-2002	AU	8536101 A	13-03-2002
			CA	2417743 A1	07-03-2002
			EP	1322391 A1	02-07-2003
			WO	0218024 A1	07-03-2002
			ZA	200300846 A	07-06-2004
WO 03067453	A	14-08-2003	AU	2003217370 A1	02-09-2003
			WO	03067453 A1	14-08-2003
			US	2004059825 A1	25-03-2004
WO 0122690	A	29-03-2001	US	6651107 B1	18-11-2003
			AU	8036500 A	24-04-2001
			CN	1390417 A	08-01-2003
			EP	1216564 A1	26-06-2002
			GB	2369757 A , B	05-06-2002
			JP	2003510905 T	18-03-2003
			WO	0122690 A1	29-03-2001
			US	2004139220 A1	15-07-2004
EP 1133129	A	12-09-2001	EP	1133129 A2	12-09-2001
			JP	2002084340 A	22-03-2002
			US	2002078249 A1	20-06-2002
			US	2002078247 A1	20-06-2002